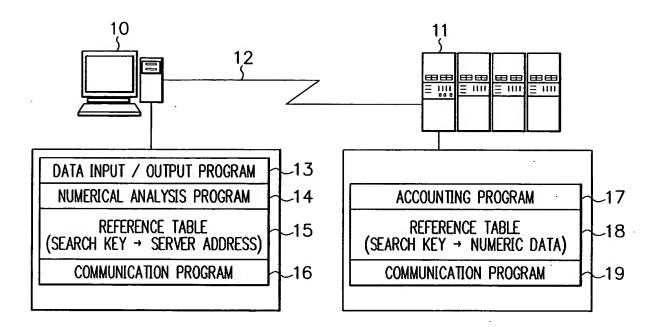
F I G. 1



F I G. 2

*TITLE ; TITLE OF SIMULATION 2 *NODE ; NODAL POINT DATA 3 *ELEMENT, TYPE=SHELL, NAME=BLANK ; ELEMENT DATA (NAME='BLANK') ; PHYSICAL PROPERTY DATA (NAME= BLANK') *MATERIAL, NAME=BLANK TYPE=MECHANICAL, SOURCE=INPUT, MODEL=003, CONSTANTS=8 2.06e5, 0.3, 150, 350, 0.225, 0.0015, 2.1, 7.8e-9 5 ; GEOMETRICAL SHAPE DATA (NAME='BLANK') *GEOMETRY, NAME=BLANK 1.2 ; BOUNDARY CONDITION DATA *BOUNDARY *STEP ; CALCULATION CONDITION 8 *END STEP

F I G. 3

≠∏TLE	; TITLE OF SIMULATION	
:		2
*NODE	NODAL POINT DATA	
:		73
*ELEMENT, TYPE=SHELL, NAME=BLANK	; ELEMENT DATA (NAME= 'BLANK')	
:		74
*MATERIAL, NAME=BLANK	; PHYSICAL PROPERTY DATA (NAME= BLANK')	
TYPE=MECHANICAL, SOURCE=NET		¬ .
spcc, MODEL=003		5
*GEOMETRY, NAME=BLANK	GEOMETRICAL SHAPE DATA (NAME='BLANK')	
1.2	· ·	٦6
*BOUNDARY ; BOUNDAR'	Y CONDITION DATA	
:		7 7
*STEP ; CA	ALCULATION CONDITION	/
:	•	
*END STEP		8

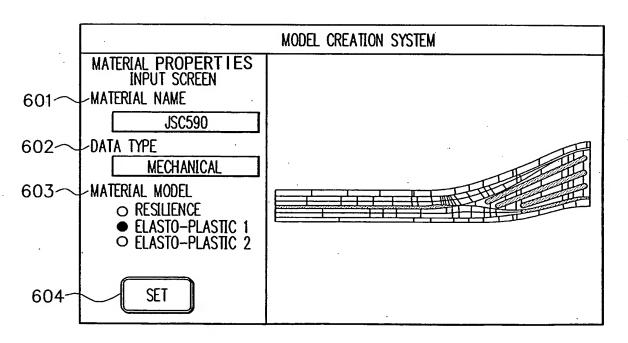
F I G. 4

MATERIAL NAME (SEARCH KEY 1)	DATA TYPE (SEARCH KEY 2)	MATERIAL MODEL INDENTIFICATION NUMBER (SEARCH KEY 3)	DATA SERVER IDENTIFICATION NUMBER
spcc	MECHANICAL	001	www.abc.com
spcc	MECHANICAL	002	www.abc.com
spcc	MECHANICAL	003	www.abc.com
:	:	:	:
spcc	THERMAL	001	www.def.com
:	:		:
sus304	MECHANICAL	001	www.def.com
•	:	:	:
a1050p	MECHANICAL	001	www.ghi.com
•	:	:	:
•	:	:	•
:	:	:	:
			·

F I G. 5

MATERIAL NAME (SEARCH KEY 1)	DATA TYPE (SEARCH KEY 2)	MATERIAL MODEL IDENTIFICATION NUMBER (SEARCH KEY 3)	NUMERIC DATA
spcc	MECHANICAL	001	*, *, *, *, *, *. • •
spcc	MECHANICAL	002	*, *, *, *, *, *, • •
spcc	MECHANICAL	003	206e5, 0.3, 150, 350, 0.225, 0.0015, 21, 7.8e-9
•		•	*, *, *, *, *, *

F I G. 6



F I G. 7 **START** READ OF INPUT DATA ~S701 EXTERNAL INPUT OR DIRECT INPUT ? \$702 (IN CASE OF EXTERNAL INPUT) (IN CASE OF DIRECT INPUT) √S704 S703 READ OF NUMERIC DATA, INQUIRY FOR REFERENCE TABLE STORE IN MEMORY CONNECTION TO DATA SERVER ~S705 (IN CASE OF AUTHENTICATION FAILURE) AUTHENTICATION (ID, PASSWORD AUTHENTICATION) ~S706 (IN CASE OF AUTHENTICATION SUCCESS) REQUEST FOR MATERIAL DATA ~S707 READ OF MATERIAL DATA, STORE IN MEMORY ∨S708 (SERVER) UPDATE OF CHARGING TABLE **∼**S709 TERMINATION OF DATA ~S710 SERVER CONNECTION START OF CALCULATION ~S711 **END**

F I G. 8

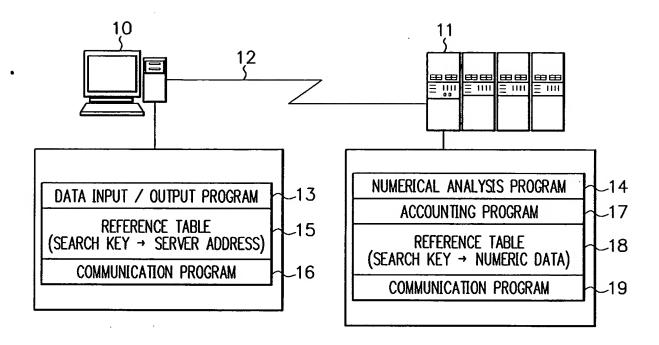


FIG. 9A

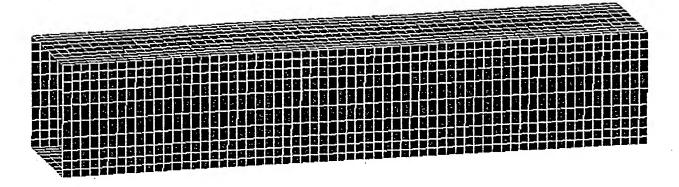
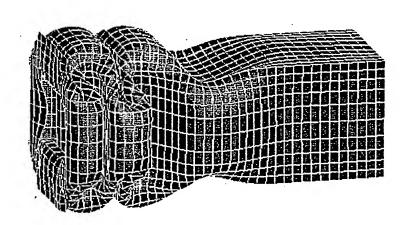


FIG. 9B



F I G. 10

